

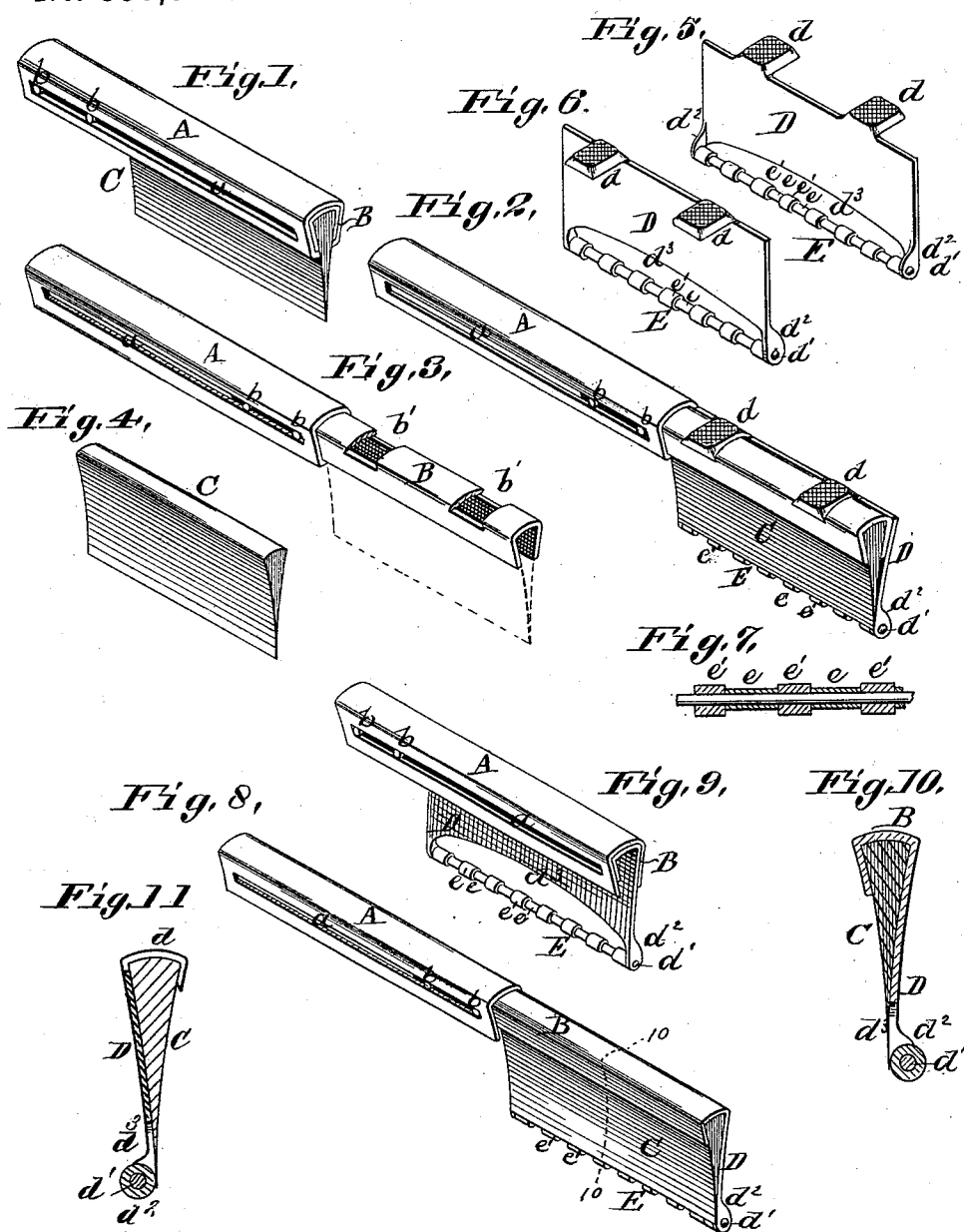
(No Model.)

L. EHRLICH.

SAFETY RAZOR.

No. 338,047.

Patented Mar. 16, 1886.



Attest;
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UNITED STATES PATENT OFFICE.

LEO EHRLICH, OF ST. LOUIS, MISSOURI.

SAFETY-RAZOR.

SPECIFICATION forming part of Letters Patent No. 338,047, dated March 16, 1886.

Application filed January 30, 1886. Serial No. 190,324. (No model.)

To all whom it may concern:

Be it known that I, LEO EHRLICH, of the city of St. Louis, in the State of Missouri, have invented a certain new and useful Improvement in Safety-Razors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, and in which—

Figure 1 is a perspective view of the razor with the guard removed and the blade within the handle. Fig. 2 is a perspective view of the razor extended, and having the guard upon the blade ready for use. Fig. 3 is a perspective view of the handle and clip (the position of the blade being shown by dotted lines.) Fig. 4 is a perspective view of the blade. Figs. 5 and 6 are perspective views of the guard viewed from the outside and inside, respectively. Fig. 7 is an enlarged detail axial section, illustrating the construction of the guard-roller. Figs. 8, 9, and 10 show a modification. Fig. 8 is a perspective view of the razor ready for use. Fig. 9 is a perspective view of the handle, clip, and guard, in this construction irremovable one from another. Fig. 10 is a transverse section at 10 10, Fig. 8. Fig. 11 is a transverse section showing the guard on a common razor-blade.

My invention consists partly in application to a razor of a roller acting as a guard to prevent the wounding of the skin in the use of the razor, and partly in certain details of construction pointed out in the claims.

The case consists of a hollow handle, A, and clip B, the clip sliding in and out in the handle. The disconnection of the clip from the handle is prevented by pins *b* of the clip, which work in a slot, *a*, in the side of the handle. The clip is formed to firmly hold the back of the blade C, which is inserted endwise into the clip.

D is the guard. It extends over one side of the blade and is secured in position by dovetail tongues *d*, which fit in dovetail grooves or notches *b'* in the back of the clip.

d' is an arbor-pin fixed at the ends in lugs *d'*, and forming the axis of one or more rollers, E, which in the use of the razor bear against the skin to prevent the edge of the blade from

cutting it, the roller projecting somewhat farther than the edge of the razor. It is preferable to make the roller in a number of lengths, *e e'*, of different diameters, so that there may be spaces between the lengths *e* (of smaller diameter) and the razor and skin respectively, for the passage of the lather and whiskers. The roller may be made with circumferential grooves for the same purpose; but it would lack another advantage of the sectional roller—namely, the capacity for variable rotation in the sections and allowing the rotation of some of the sections while the others are at rest. There is an aperture, *d'*, between the rollers and the guard-plate to allow the passage of whiskers and lather.

To allow the clip to be pushed into the handle, or to permit strapping the razor, the guard is removed from the blade. The razor can of course be used with or without the guard.

In the modification shown in Figs. 8, 9, and 10 the clip and guard are made in one piece, so that the blade cannot be strapped while in the clip and for strapping the blade the blade must be removed and put into a clip with a handle, which may be like that shown in Fig. 3, (the notches *b'* of course not being needed.)

The purpose of making the clip to slide within the handle is to allow the device being put into small compass when not in use.

It will be seen that the guard, substantially as shown in Figs. 5 and 6, may be placed on the blade of an ordinary razor or any form of blade, the tongues *d* being made to clasp the back of the blade, as seen in transverse section in Fig. 11. The guard may be made longer or shorter, as may be required.

I claim as my invention—

1. The combination of the handle and clip for a razor-blade telescoped together, substantially as set forth.

2. The combination of handle A, clip B, sliding therein, a razor-blade and a roller-guard, substantially as set forth.

LEO EHRLICH.

In presence of—

SAML. KNIGHT,

BENJN. A. KNIGHT.